§ 176.901

the loading and the fire hose laid out ready for immediate use. Portable fire extinguishers must be placed to be readily available. The fire hose, fire pumps, and fire extinguishers may be the vessel's equipment or shore equipment.

- (h) Smoking is not permitted on a vessel during the loading or unloading of cotton or vegetable fibers except at those times and in those places designated by the master. "NO SMOK-ING" signs must be conspicuously posted in appropriate places, and the responsible person in charge of the loading or unloading (see §176.57 of this part) must ensure that they are observed.
- (i) Cotton or vegetable fibers may be stowed in the same hold over bulk sulfur if the sulfur has been trimmed and leveled and the hold is thoroughly cleaned of sulfur dust. A tight floor of two layers of 2.54 cm (1 inch) crossed clean dunnage boards must be laid on the sulfur before cotton or vegetable fibers are stowed. These substances may be stowed alongside each other in the same hold if they are separated by a tight dustproof wood bulkhead.
- (j) Cotton or vegetable fibers may not be stowed in a 'tween deck hold over bulk sulfur in a lower hold unless the 'tween deck hold has been thoroughly cleaned of all sulfur dust and the 'tween deck hatch covers are in place and covered with tarpaulins and dunnage.

§ 176.901 Stowage of cotton or vegetable fibers with rosin or pitch.

- (a) Unless impracticable, cotton or vegetable fibers being transported on a vessel may not be stowed in the same hold or compartment with rosin or pitch being transported on the same vessel
- (b) When separate stowage is impracticable, the cotton or vegetable fibers may be stowed in the same hold or compartment with rosin or pitch if they are separated by clean dunnage or a cargo of a non-combustible nature. When such stowage within the same hold or compartment involves large amounts of cotton or fibers or of rosin or pitch, the rosin or pitch must be floored off with at least two layers of

2.54 cm (1 inch) dunnaging and the cotton or vegetable fibers stowed above.

§176.903 Stowage of cotton or vegetable fibers with coal.

Cotton or vegetable fibers being transported on a vessel may not be stowed in the same hold with coal. They may be stowed in adjacent holds if the holds are separated by a tight steel bulkhead and the cotton or vegetable fibers are dunnaged at least 5 cm (2 inches) off the bulkhead. Cotton or vegetable fibers may be stowed in a hold above or below one in which coal is stowed if there is a tight steel intervening deck and all hatch covers are in place and covered with tarpaulins.

§ 176.905 Stowage of motor vehicles or mechanical equipment.

- (a) A vehicle or any mechanical equipment powered by an internal combustion engine, a fuel cell, batteries or a combination thereof, is subject to the following requirements when carried as cargo on a vessel:
- (1) Before being loaded on a vessel, each vehicle or mechanical equipment must be inspected for fuel leaks and identifiable faults in the electrical system that could result in short circuit or other unintended electrical source of ignition. A vehicle or mechanical equipment showing any signs of leakage or electrical fault may not be transported.
- (2) The fuel tank of a vehicle or mechanical equipment powered by liquid fuel may not be more than one-fourth full.
- (3) Whenever possible, each vehicle or mechanical equipment must be stowed to allow for its inspection during transportation.
- (4) Vehicles or mechanical equipment may be refueled when necessary in the hold of a vessel in accordance with §176.78 of this part.
- (b) All equipment used for handling vehicles or mechanical equipment must be designed so that the fuel tank and the fuel system of the vehicle or mechanical equipment are protected from stress that might cause rupture or other damage incident to handling.
- (c) Two hand-held, portable, dry chemical fire extinguishers of at least 4.5 kg (10 pounds) capacity each must

be separately located in an accessible location in each hold or compartment in which any vehicle or mechanical equipment is stowed.

- (d) "NO SMOKING" signs must be conspicuously posted at each access opening to the hold or compartment.
- (e) Each portable electrical light, including a flashlight, used in the stowage area must be an approved, explosion-proof type. All electrical connections for any light must be made to outlets outside the space in which any vehicle or mechanical equipment is stowed.
- (f) Each hold or compartment must be ventilated and fitted with an overhead water sprinkler system or fixed fire extinguisher system.
- (g) Each hold or compartment must be equipped with a smoke or fire detection system capable of alerting personnel on the bridge.
- (h) All electrical equipment in the hold or compartment other than fixed explosion-proof lighting must be disconnected from its power source at a location outside the hold or compartment during the handling and transportation of any vehicle or mechanical equipment. Where the disconnecting means is a switch or circuit breaker, it must be locked in the open position until all vehicles have been removed.
- (i) Exceptions—A vehicle or mechanical equipment is excepted from the requirements of this subchapter if the following requirements are met:
- (1) Internal combustion engines liquid fuel powered. (i) The vehicle or mechanical equipment has an internal combustion engine using liquid fuel that has a flashpoint less than 38 °C (100 °F), the fuel tank is empty, and the engine is run until it stalls for lack of fuel; or
- (ii) The vehicle or mechanical equipment has an internal combustion engine using liquid fuel that has a flashpoint of 38 °C (100 °F) or higher, the fuel tank contains 418 L (110 gallons) of fuel or less, and there are no fuel leaks in any portion of the fuel system
- (2) Vehicle ferry operations. The vehicle or mechanical equipment is stowed in a hold or compartment designated by the administration of the country in which the vessel is registered as specially designed and approved for vehi-

- cles and mechanical equipment and there are no signs of leakage from the battery, engine, fuel cell, compressed gas cylinder or accumulator, or fuel tank, as appropriate. For vehicles with batteries connected and fuel tanks containing gasoline transported by U.S. vessels, see 46 CFR 70.10–1 and 90.10–38.
- (3) Battery-powered. The vehicle or mechanical equipment is electrically powered solely by wet electric storage batteries (including nonspillable batteries) or sodium batteries;
- (4) Flammable gas powered. The vehicle or mechanical equipment is equipped with liquefied petroleum gas or other compressed gas fuel tanks, the tanks are completely emptied of liquefied or compressed gas and the positive pressure in the tank does not exceed 2 bar (29 psig), the line from the fuel tank to the regulator and the regulator itself is drained of all traces of liquefied or compressed gas, and the fuel shut-off valve is closed.
- (j) Except as provided in §173.220(d) of this subchapter, the provisions of this subchapter do not apply to items of equipment such as fire extinguishers, compressed gas accumulators, airbag inflators and the like which are installed in the vehicle or mechanical equipment if they are necessary for the operation of the vehicle or equipment, or for the safety of its operator or passengers.

[76 FR 3384, Jan. 19, 2011]

PART 177—CARRIAGE BY PUBLIC HIGHWAY

Subpart A—General Information and Regulations

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